

LOCKHEED AIRCRAFT CORPORATION		ENGINEERING STUDY <input type="checkbox"/>		LAC -114-2 *							
DATE 11-28-61		AFFECTS: WSPO <input type="checkbox"/>		PROJECT <input checked="" type="checkbox"/>							
NAME OF MAJOR COMPONENT AIRPLANE		PART OR LOWEST SUBASSEMBLY		PART NO. & MODEL OR TYPE							
TITLE OF PROPOSAL : ADDITION OF VOR CAPABILITY											
NATURE OF PROPOSAL : SEE SHEET 2											
* -2 REVISION ADDS ARTICLES 342, 343, 344 TO THIS PROPOSAL											
REASON FOR PROPOSAL : TO PROVIDE IN 7 AIRCRAFT ADDITIONAL NAVIGATIONAL CAPABILITY, PER CUSTOMER REQUEST, BY INSTALLATION OF ARC-15F (CRYSTAL CONTROLLED) VOR, AND ACCOMPLISH A WEIGHT SAVING AND PROVIDE SPACE BY REPLACING EXISTING AN/ARN-6 ADF WITH AN/ARN-59 ADF IN 4 AIRCRAFT. (NOTE: INSTALLATION OF AN/ARN-59 HAS BEEN AUTHORIZED ON A/C SERIAL 342, 343 AND 344; REFERENCE LAC ECP-99.)											
<div style="text-align: right;"> 147  DOCUMENT NO. _____  NO CHANGE IN CLASS. <input type="checkbox"/>  DECLASSIFIED TO: TS 2011  CLASS. CHANGED TO: _____  AUTH: MR 12-2  DATE: 3 Aug 81 REVIEWER: _____  25X1A </div>											
ES	ESTIMATED COST AND TIME INVOLVED : ADDITIONAL FUNDING REQUIRED :										
CP	ESTIMATED COST FOR KITS OR PARTS : ADDITIONAL FUNDING REQUIRED : SEE PAGE 3										
ITEMS AFFECTED BY PROPOSAL :											
SAFETY	MISSION EFFEC- TIVENESS	PERFORM- ANCE	OPERATING PROCEDURE	INTER- CHANGE- ABILITY	WEIGHT OR WEIGHT & BALANCE	TOOLS & SUPPORT EQUIPMENT	MAINTENANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MAINTENANCE MANUAL	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD											
SOURCE OF PARTS FOR KIT LAC						AVAILABILITY _____ WEEKS AFTER APPROVAL SEE PAGE 3					
DISPOSITION OF SPARES AFFECTED TO BE DETERMINED BY WRAMA						25X1A					
INITIATED BY : PROJECT						APPROVED : -WSPO-					
Approved For Release 2002/08/16 : CIA-RDP66B00728R000300050016-5											

NATURE OF PROPOSAL

NOTE: Four aircraft (352, 355, 358 and 378) will be modified by the addition of VOR and replacement of the ARN-6 with the ARN-59 ADF system. This configuration allows a weight savings of 6 pounds.

Three aircraft (342, 343 and 344) will be modified by the addition of VOR installation of the ARN-59 ADF has been previously approved. (Ref. ECP LAC-99). This configuration adds 28 pounds weight.

After all modifications are complete, the seven aircraft will have identical ADF and VOR systems.

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1. The ADF loop and VOR antenna will be housed in an all plastic nose. The AN/ARN-30 VOR receiver and ARC type B-18A RMI converter will be installed in the nose area forward of the 618T-3 transceiver pressure box. This area is presently designated as "Alternate" provisions for system VI  Power Supply". The bracketry will be such to allow convenient installation of either the VOR units or the system VI units, but not simultaneously.
  2. The ADF and VOR controls will be located on the R. H. side console. Mark III hand controls will be required. The contractor understands that the subject aircraft are equipped with these controls. If not, aircraft with other than Mark III controls must be modified by installation of Mark III controls.
  3. The VOR indicator will be installed on the R. H. windshield sill in the area now occupied by the destructor switches. The present destructor switch box will be deleted and replaced by a new box and installed on the L. H. windshield sill. The outside air temperature indicator will be installed on a bracket attached to the top of the destructor switch box.
  4. The sense antenna will be reworked to provide improved operation, as determined by previous flights on FOG aircraft.
  5. Prepare and issue a Service Bulletin and manufacture the necessary kits.

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